

PURCHASE ORDER

Province of Davao de Oro
Agency/Procuring Entity

Supplier: UNICENTER COMMUNICATIONS	PO Number: 25101505
Address: Maharlika, Village, Maa, Davao City	Date: 10/20/25
E-mail Address:	Mode of Procurement PB
Tel. No.: 305-5942	PR Number: 25-4525
TIN: 913887131000	

Gentlemen:
Please furnish this office the following articles subject to the terms and conditions contained herein:

Place of Delivery: PGSO	Delivery Term:
Date of Delivery: 60 DAYS	Payment Term:

No.	Stock No.	Unit of Issue	Quantity	Description	Unit Cost	Amount
1	40616N	lot	1.00	<div>INSTALLATION OF AN END-TO-END MULTI- HAZARD EARLY WARNING AND MONITORING SYSTEM PHASE III WITH REMOTE CCTV EMPLOYING SCADA TECHNOLOGY TO STRENGTHEN DISASTER PREPAREDNESS</div> <div>A. Site 1: San Jose Bridge Latitude: 7°38'25.51"N Longitude: 126° 4'18.09"E 1. CCTV - 1 unit 4+4MP 25x Network Dual Lens PTZ Camera 25x Optical Zoom Max. 25/30 fps@4M IR distance up to 100m LINK 1 – NEW CALAPE to SAN JOSE BRIDGE 2. RADIO - 2 units RADIO ePMP Force 300-25 - Channel Width MHz 20 40 80 - Proprietary Physical Layer 802.11ax, 2x2 MIMO/OFDM - Channel Spacing Configurable in 5 MHz increments - Frequency Range Wide-band operation 4910–6135 MH 3. 80ft Monopole tower, with access for repairs/maintenance plus guy wires 4. 15-25ft tapered/octagonal pole or 3" GI pipe for CCTV</div> <div>B. Site 2: Kalaw Bridge, Poblacion Monkayo Latitude: 7°49'52.82"N</div>	1,985,500.00	1,985,500.00

COMMISSION ON AUDIT DAVAO DE ORO
TEAM 1
RECEIVED
DATE: 11/19/25
TIME: 8:08
BY: [Signature]

Total Amount in Words:

In case of failure to make the full delivery within the time specified above, a penalty of one tenth (1/10) of one (1) percent for every day of delay shall be imposed.

Conform	Very truly
<div>Signature over printed name of</div> <div>11/11/25</div> <div>Date</div>	<div>ENGR. RAUL G. MABANGLO</div> <div>Governor</div> <div>Authorized Official</div>

GENERAL
OBR No.: 0832-11-X-105
Responsibility Center:
Amount: 1,985,500.00

(In case of Negotiated Purchase pursuant to section 369(a) of RA 7180, this portion must be
Approved per Sanggunian Resolution
Certified Date

PURCHASE ORDER

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NOV 05 2025

Supplier: UNICENTER COMMUNICATIONS Address: Maharlika, Village, Maa, Davao City E-mail Address: Tel. No.: 305-5942 TIN: 913887131000	PO Number: 25101505 Date: 10/20/25 Mode of Procurement PB PR Number: 25-4525
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				Longitude: 126° 3'1.12"E 1. CCTV - 1 unit 4+4MP 25x Network Dual Lens PTZ Camera 25x Optical Zoom Max. 25/30 fps@4M IR distance up to 100m LINK 2 – NEW CALAPE to KALAW BRIDGE 2. RADIO - 2 units RADIO ePMP Force 300-25 - Channel Width MHz 20 40 80 - Proprietary Physical Layer 802.11ax, 2x2 MIMO/OFDM - Channel Spacing Configurable in 5 MHz increments - Frequency Range Wide-band operation 4910–6135 MH 3. 60ft Monopole tower, with access for repairs/maintenance plus guy wires - 1 unit 4. 15-25ft tapered/octagonal pole or 3" GI pipe for CCTV - 1 unit C. Site 3: Bangoy Bridge, Camanlangan Latitude: 7°34'35.69"N Longitude: 126° 8'5.04"E 1. CCTV - 1 unit 4+4MP 25x Network Dual Lens PTZ Camera 25x Optical Zoom Max. 25/30 fps@4M IR distance up to 100m LINK 3 – SAN JOSE to BANGROY Bridge 2. RADIO - 2 units		
<div>COMMISSION ON AUDIT DAVAO DE ORO TEAM 1 RECEIVED DATE 11/19/25 TIME 8:00 BY: [Signature]</div>					Amount As Read 1,985,500.0 As Calculated 1,985,500.0	

Total Amount in Words: One Million Nine Hundred Eighty Five Thousand Five Hundred Pesos Only	1,985,500.00
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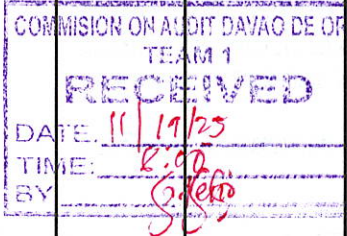
NOV 05 2025

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				<p>RADIO ePMP Force 300-25</p> <ul style="list-style-type: none">- Channel Width MHz 20 40 80- Proprietary Physical Layer 802.11ax, 2x2 MIMO/OFDM- Channel Spacing Configurable in 5 MHz increments- Frequency Range Wide-band operation 4910–6135 MH <p>4. 60ft Monopole tower, with access for repairs/maintenance plus guy wires - 1 unit</p> <p>5. 15-25ft tapered/octagonal pole or 3" GI pipe for CCTV - 1 unit</p> <p>D. NEW CALAPE Site</p> <ul style="list-style-type: none">1. 60ft Monopole tower, with access for repairs/maintenance plus guy wires - 1 unit (Height regulated & approved by Barangay) <p>E. COMMAND CENTER DISPLAY AND REMOTE CONTROLLER SYSTEM</p> <p>Supply, Installation, Configuration and Commissioning, Integration of old EWS Equipment</p> <p>Inclusions:</p> <ul style="list-style-type: none">1. 2pcs 32" Monitor LED backlit Technology with full HD 1920x10801. 2 pcs wall mount LCD LED Fixed/Swivel Bracket2. 2 pcs HDMI Splitter full HD 4K 1 in 2 out 1080p3. 4pcs HDMI Cables (5/10/20m)4. Radio controlled remote system development & integration5. Supplier must have at least 1 HCSA Certified Installer		
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				<p>6. Supplier must have at least 1 COSH/ BOSH safety officer</p> <p>F. Installation of Colored markers vertically on bridge pillars, riverbanks, or nearby concrete structures within the CCTV's field of view. These markers serve as visual flood gauges that allow remote monitoring teams to quickly assess rising water levels during heavy rain or flood events for Kalaw, San Jose, and Bangoyo Bridges.</p> <p>Specifications:</p> <p>Material: Weather-resistant and reflective paint or durable plastic/composite flood gauge plates.</p> <p>Height Coverage: From normal water level up to projected worst-case flood height (e.g., 0m to 5m).</p> <p>Color Coding:</p> <p>Green (0–1.0m): Normal or safe water level</p> <p>Yellow (1.1–2.5m): Alert level – rising water</p> <p>Orange (2.6–4.0m): Critical level – possible flooding</p> <p>Red (4.1m and above): Danger level – imminent flooding/evacuation</p> <p>Location Criteria:</p> <p>Within the field of view of installed CCTV cameras</p> <p>Accessible for maintenance and repainting</p>		
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				<p>Preferably mounted on permanent concrete structures (bridge piers, retaining walls)</p> <p>G. SCADA SOFTWARE</p> <p>Develop a client-server architecture to collect, process, and store data from remote weather sensors.</p> <p>Establish secure communication channels (e.g., via radio signal/P2P) between field stations and the central server.</p> <p>Implement failover mechanisms for data integrity in case of network disruptions.</p> <p>3.2 Database Server Setup</p> <p>Install and configure a dedicated database server (e.g., PostgreSQL/MySQL) hosted on-premises at the PDRRMOC.</p> <p>Design data tables and schema for:</p> <ul style="list-style-type: none">o Timestamped rainfall measurementso Timestamped water level measurementso Sensor health and status logs <p>Enable automated backups and redundancy to prevent data loss.</p> <p>3.3 Sensor Data Integration</p> <p>Interface with:</p> <ul style="list-style-type: none">o Tipping bucket rain gauges for rainfall intensity and accumulation data.o Ultrasonic water level sensors for river/stream height measurements. <p>Support data polling and/or push-based transmission from each remote</p>		
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				<p>station.</p> <p>Apply data validation and filtering to remove erroneous readings.</p> <p>3.4 Real-Time Monitoring Dashboard</p> <p>Develop a web-based monitoring dashboard accessible via local network and secure remote login.</p> <p>Display on large screen monitor in PDRRMOC with:</p> <ul style="list-style-type: none">o Map-based view showing sensor locations and current readings.o Color-coded status indicators for sensor health and alert levels.o Graphs (limited) of historical and live data trends. <p>Provide customizable thresholds for alert generation.</p> <p>3.5 Alert and Notification System</p> <p>Pop-up notifications for:</p> <ul style="list-style-type: none">o Rainfall rate exceeding defined limits.o Water level exceeding flood warning thresholds. <p>On-screen flashing indicators and alarms at the PDRRMOC.</p> <p>3.6 User Roles and Access Control</p> <p>Administrator: Full access, configuration, and maintenance.</p> <p>Operator: Read-only dashboard access with ability to acknowledge alerts.</p> <p>3.7 Training and Documentation</p> <p>On-site training for PDRRMOC staff on:</p> <ul style="list-style-type: none">o System operation		
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				<div>o Data interpretation</div> <div>o Routine maintenance</div> <div>Delivery of complete user manuals and system documentation.</div> <div>4. Technical Specifications</div> <div>4.1 Hardware Requirements (Not included in the Scope deliverables)</div> <div>Database Server:</div> <div>o Processor: Intel Xeon or equivalent, 8 cores</div> <div>o Memory: 32 GB RAM</div> <div>o Storage: 2 TB RAID-1/RAID-5, SSD preferred</div> <div>o OS: Linux or Windows Server</div> <div>Large Screen Monitor:</div> <div>o Size: 32 inches</div> <div>o Resolution: 4K UHD</div> <div>o Input: HDMI/Display Port</div> <div>Field Sensors:</div> <div>o Rain Gauge: Tipping bucket type, accuracy ±2% at 20 mm/h</div> <div>o Ultrasonic Water Level Sensor: Accuracy ±2 cm, range 10 meters</div> <div>o Communication Module: P2P/Radio</div> <div>o Solar-powered with battery backup (minimum 3-5 days autonomy)</div> <div>4.2 Software Requirements</div> <div>Database: PostgreSQL/MySQL (open-source or licensed as required)</div> <div>Server Application: Python/Node.js/Java backend with REST API endpoints</div> <div>Frontend Dashboard: HTML5, JavaScript (React/Vue/Angular), responsive design</div>		
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GENERAL
OBR No.: 19832-11-25
Responsibility Center:
Amount: 1,985,500.00

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				<p>Security: SSL/TLS encryption, password hashing, role-based authentication</p> <p>Backup: Automated daily backups, stored on external drive or cloud</p> <p>H. Additional Qualifications/Certifications</p> <p>1. Bidders must be located in Mindanao to assure immediate response support whenever problem arises.</p> <p>2. Bidders must submit PCAB Communications License for communication specialty.</p> <p>3. Bidders Local Technician must have at least 2 years' experience in any Disaster Risk Reduction Management Operations Center</p> <p>4. Bidders Local Technician must have at least 2 years' experience in PAGASA-DOST Sensor Controls</p> <p>5. Bidders must have HCSA Certified Installer</p> <p>6. Bidders must have 1 BOSH safety officer</p> <p>Terms and Condition:</p> <p>1. Should Provide Training on the maintenance of equipment</p> <p>2. With installation includes, configuration, testing and commissioning , programming, including end-user training for 1 day</p> <p>3. Bidders must have conducted actual site survey of the propose site with site survey certificate as proof</p> <div><div>COMMISSION ON AUDIT DAVAO DE ORO TEAM 1 RECEIVED DATE: 11/19/25 TIME: 8:00 BY: [Signature]</div><div>Amount As Read 1,985,500.0 As Calculated 1,985,500.0</div></div>		

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GENERAL
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Responsibility Center:
Amount: 1,985,500.00

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Name of Procuring Entity: LGU-Province of Davao de Oro
Standard Form No. SF-GOOD-58
Revised: May 24, 2004
Std. Form Title: Purchase Order

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				<p>4. Bidder must ensure system compatability and integration with the Phase I and Phase II of the end-to-end multihazard early warning system installed in the province</p> <p>5. The installed end-to-end Multi-Hazard Early Warning and Monitoring System Phase III with remote CCTV shall be covered by a one (1) year service warranty, effective from the date of final testing, acceptance, and turnover to the end-user office.</p> <p>FOR USE OF PDRMO</p> <p>THE AWARD IS BASED ON ABSTRACT NO. 2510121 UNDER BID NO.B-25-0189 OPENED ON October 08, 2025</p> <div><p>COMMISSION ON AUDIT DAVAO DE ORO TEAM 1 RECEIVED DATE: 11/19/25 TIME: 8:00 BY: [Signature]</p></div>		
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